

1 **ABSTRACT**

2 A finite state model-based testing system has a user interface to enable a
3 user to enter state information and transition information about a software
4 application to be tested. The user interface further enables a user to initiate a
5 model generation engine to generate a model of the software application from the
6 state information and transition information. A graph traversal menu enables a
7 user to select a graph traversal program to generate a test sequence of inputs for
8 the software application from the model, and a test execution menu enables a user
9 to select a test driver program to read the test sequence of inputs for the software
10 application, and execute the test sequence of inputs on the software application.

11
12
13
14
15
16
17
18
19
20
21
22
23
24
25